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1 Routine/Function Prologues

1.0.1 **clm2_almaout.F90** (Source File: *clm2_almaout.F90*)

CLM output writer.

REVISION HISTORY:

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29 Oct. 1999: Jon Radakovich; Initial code
27 Sep. 2000: Brian Cosgrove; Major revisions to enable CLM to
               output ALMA/LDAS variables
27 Sep. 2000: Added arbitrary root zone cutoff value of .05 so
               that root zone is considered only those levels
               with a rooting value >= .05
19 Mar 2000: Cosgrove; Changed code to allow LDAS GRIB output. Removed
               calls to LATS4D that had been used for grib output and
               added a call to griboutclm which outputs GRIB CLM data.
05 Apr 2002: Jon Gottschalck; Modified code to work with CLM2
14 Jun 2003; Sujay Kumar; ALMA version of the output routine

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INTERFACE:

```
subroutine clm2_almaout ()
```

USES:

```

use lisdrv_module, only : lis, tile
use clm_varctl, only : clmdrv

```

CONTENTS:

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!-----
! Test to see if output writing interval has been reached
!-----
if(mod(lis%t%gmt,clmdrv%writeintc2).eq.0)then
!-----
! Generate directory structure and file names for CLM Output
!-----
      write(unit=temp,fmt='(i4,i2,i2)')lis%t%yr,lis%t%mo,lis%t%da
      read(unit=temp,fmt='(8a1)')ftime
      do i=1,8
         if(ftime(i).eq.(' '))ftime(i)='0'
      enddo

      write(unit=temp,fmt='(i4)')lis%t%yr
      read(unit=temp,fmt='(8a1)')ftimec
      do i=1,4
         if(ftimec(i).eq.(' '))ftimec(i)='0'
      enddo

```

```

#ifndef F90
      write(unit=temp,fmt='(a6,i3,a1)')' /LIS.E',lis%o%expcode,'.
      read(unit=temp,fmt='(80a1)') (fname(i),i=1,11)
      do i=1,10
          if(fname(i).eq.' ') fname(i)='0'
      enddo
#endif
      write(unit=temp,fmt='(a40)') lis%o%odir
      read(unit=temp,fmt='(40a1)') (fbase(i),i=1,40)
      c=0
      do i=1,40
          if(fbase(i).eq.' ').and.c.eq.0)c=i-1
      enddo

      write(unit=temp,fmt='(a4,i3,a6,i4,a1,i4,i2,i2)')'/EXP', &
          lis%o%expcode,'/CLM2/, &
          lis%t%yr,'/,lis%t%yr,lis%t%mo,lis%t%da
      read(unit=temp,fmt='(80a1)') (fyrmadir(i),i=1,26)
      do i=1,26
          if(fyrmadir(i).eq.' ') fyrmadir(i)='0'
      enddo

      write(unit=temp,fmt='(a9)')'mkdir -p '
      read(unit=temp,fmt='(80a1)')(fmkdir(i),i=1,9)

      write(unit=temp,fmt='(80a1)')(fmkdir(i),i=1,9),(fbase(i),i=1,c), &
          (fyrmadir(i),i=1,26)
      read(unit=temp,fmt='(a80)')mkfyrmo

!-----
! Make the directories for the CLM2 output files
!-----
      call system(mkfyrmo)
!-----
! Generate file name for binary output
!-----

      write(unit=temp,fmt='(I4,I2,I2,I2)')lis%t%yr, &
          lis%t%mo,lis%t%da,lis%t%hr
      read(unit=temp,fmt='(10A1)')ftimeb
      do i=1,10
          if(ftimeb(i).eq.' ')ftimeb(i)='0'
      enddo
      if(lis%o%wout.eq.1)then
          write(unit=temp,fmt='(A9)')'.gs4r      '
          read(unit=temp,fmt='(80A1)') (fsubgb(i),i=1,9)
      elseif(lis%o%wout.eq.2) then
          write(unit=temp,fmt='(A9)')'.CLM2.grb'

```

```

        read(unit=temp,fmt='(80A1)') (fsubgb(i),i=1,9)
elseif(lis%o%wout.eq.3) then
        write(unit=temp,fmt='(A9)')' .CLM2.nc '
        read(unit=temp,fmt='(80A1)') (fsubgb(i),i=1,9)
endif
#if 0
        write(unit=temp,fmt='(80A1)')(fbase(i),i=1,c), &
            (FYRMODIR(I),I=1,26), &
            (fname(i),i=1,10), &
            (ftimeb(i),i=1,10),(fsubgb(i),i=1,9 )
        read(unit=temp,fmt='(A80)')filengb
#endif
        write(unit=temp,fmt='(67A1)')(fbase(i),i=1,c), &
            (FYRMODIR(I),I=1,26), '/,&
            (ftimeb(i),i=1,10),(fsubgb(i),i=1,9 )
        read(unit=temp,fmt='(A80)')filengb

endif
clmdrv%numoutc2=clmdrv%numoutc2+1      !Counts number of output times
!-----
! Write statistical output
!-----
if(clmdrv%clm2open.eq.0)then
    file='CLMstats.dat'
    call openfile(name,lis%o%odir,lis%o%expcode,file)
    if(lis%o%startcode.eq.1)then
        open(60,file=name,form='formatted',status='unknown', &
              position='append')
    else
        open(60,file=name,form='formatted',status='replace')
    endif
    clmdrv%clm2open=1
endif

write(60,996)' Statistical Summary of CLM Output for: ', &
    lis%t%mo,'/',lis%t%da,'/',lis%t%yr,lis%t%hr,:', &
    lis%t%mn,:',lis%t%ss
996 format(a47,i2,a1,i2,a1,i4,1x,i2,a1,i2,a1,i2)
write(60,*)
write(60,997)
997 format(t26,'Mean',t40,'StDev',t54,'Min',t68,'Max')

ftn = 57
if(lis%o%wout.eq.1)then
    open(ftn,file=filengb,form='unformatted')
    call clm2_binout(ftn)
    close(ftn)
endif

```

```
call clm2_writestats(60)
```